

REMARKS/ ARGUMENTS

This application is an U.S. National Phase application of PCT/EP00/04499 filed via the Patent Cooperation Treaty under 35 USC 371. Claims 1-80 are currently pending.

The specification has been amended to indicate the prior applications from which priority is claimed.

The claims are presented as amended in the Amended Sheets filed during PCT examination in response to the International Preliminary Examination Report. Claims 6-8, 10, 13-15, 18, 24, 26-29, 31, 34-37, 39-40, 46, 48-49, 51, 54-55, 57, 61, 63-64, 66, 68-71, 73, 75-76, 79 and 80 have been amended herein to eliminate multiple dependencies adapting the PCT application to US practice and reducing prosecution fees.

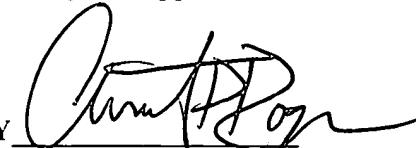
An Abstract on a separate sheet of paper has been added herein pursuant to US patent practice.

Attached hereto is a marked version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADEIn the Specification

The specification was amended to include priority applications as follows:

After the Title, the following new paragraph was added:

--This is a U.S. National Phase filing under 35 USC 371. Priority is claimed from PCT/EP00/04499 filed May 18, 2000, which claims priority from Patent Application GB 9911770.7 filed May 21, 1999 filed in the United Kingdom.--

In the Claims

The claims were amended as follows:

1. A method of loading a container with a defined quantity of product which comprises:
 - a) closing off a perforation in a perforated plate;
 - b) directing powder into said closed-off perforation by the action of a first leveller blade moveable on a sweeping path relative to the perforated plate; and
 - c) transferring the contents of the perforation to said container,

wherein the first leveller blade is spaced from the perforated plate and presents a forward acute angle to the sweeping path.

2. A method according to claim 1, wherein the closing off is achievable by the use of a blanking plate.

3. A method according to claim 1, wherein the closing off is achievable by the use of a blanking pin inserted into the perforation.

4. A method according to claim 3, wherein the blanking pin is moveable within the perforation to adjust the volume of the closed-off perforation.

5. A method according to claim 1, wherein the closing off is achievable by placing a container in registration with the perforation.

6. (Amended) A method according to claim 1, any of claims 1 to 5 wherein the diameter of the closed-off perforation is between 1.5 and 15 mm.

7. (Amended) A method according to claim 1 any of claims 1 to 6, wherein said first leveller blade moves on a linear sweeping path.

8. (Amended) A method according to claim 1 any of claims 1 to 7, wherein the forward acute angle is between 1 and 60°.

9. A method according to claim 8 wherein the forward acute angle is between 5 and 25°.

10. (Amended) A method according to claim 1 any of claims 1 to 9, wherein the first leveller blade presents multiple forward acute angles to the linear sweeping path.

11. A method according to claim 10, wherein the first leveller blade is curved in form.

12. A method according to claim 11, wherein the first leveller blade is articulated in form.

13.(Amended) A method according to claim 1 any of claims 1 to 9, wherein the first leveller blade has a flat tail section.

14.(Amended) A method according to claim 7 any of claims 7 to 13 comprising plural movements of the first leveller relative to the perforated plate.

15. (Amended) A method according to claim 7 any of claims 7 to 14, wherein a thin layer of powder is left on the perforated bed after movement of the first leveller blade.

16. A method according to claim 15, wherein the depth of said thin layer of powder is from 3 to 20 mm.

17. A method according to claim 16 wherein the depth of said thin layer of powder is from 4 to 8 mm.

18. (Amended) A method according to claim 7, any of claims 7 to 17 wherein the powder is further directable by at least one subsequent leveller blade.

19. A method according to claim 18, wherein the at least one subsequent leveller blade moves along the perforated plate at a lower level than that of the first leveller blade.

20. A method according to claim 19, wherein the distance between the level of movement of the first leveller blade and the at least one subsequent leveller blade is 0 to 12 mm.

21. A method according to claim 20, wherein the distance between the level of movement of the first leveller blade and the at least one subsequent leveller blade is 1 to 3 mm.

22. A method according to any of claims 1 to 7, wherein the perforated plate forms the rim of a drum.

23. A method according to claim 22, wherein the powder is directable by gravity as said drum rotates.

24. (Amended) A method according to claim 1 ~~either any of claims 1 to 23~~, additionally comprising removing excess powder from said perforated plate subsequent to directing powder into the perforation.

25. A method according to claim 24, comprising removing said excess powder by the action of a wiper.

26. (Amended) A method according to claim 1, ~~any of claims 1 to 25~~, wherein the contents of the perforation are transferable by the action of a transfer pin.

27. (Amended) A method according to claim 1, ~~any of claims 1 to 26~~ wherein direction of powder into the closed-off perforation and transfer into the blind cavity is a continuous step.

28. (Amended) A method according to claim 1, ~~any of claims 1 to 27~~ wherein transfer of the contents of the perforation to the container comprises:

- a) reopening the perforation;
- b) placing the container in registration with the perforation; and
- c) transferring the contents of the perforation into the container.

29.(Amended) A method according to claim 1, ~~any of claims 1 to 25~~ wherein the contents of the perforation are transferable by the action of a vacuum system.

30. A method according to claim 29, wherein said vacuum system comprises a vacuum head and at least one vacuum cup.

31. (Amended) A method according to claim 1 ~~any of claims 1 to 30~~, additionally comprising compacting the powder in the perforation.

32. A method according to claim 31, wherein the powder is compacted to a volume of between 70 and 100% of the original volume of powder in the closed-off perforation.

33. A method according to claim 31, wherein the powder is compacted to form a tablet.

34. (Amended) A method according to claim 31, ~~any of claims 31 to 33~~, wherein the powder is compactable by the action of a compacting pin.

35. (Amended) A method according to claim 26, ~~either of claims 26 or 34~~, wherein the transfer pin and the compacting pin are integral.

36. (Amended) A method according to claim 26, ~~either of claims 26 or 34~~, wherein the transfer pin and the compacting pin are identical.

37. (Amended) A method according to claim 1 ~~any of claims 1 to 36~~ wherein the container is a blind cavity.

38. A method according to claim 37 wherein the blind cavity is selected from the group consisting of a blister pocket, an injection moulded plastic pocket, a capsule and a bulk container.

39. (Amended) A method according to claim 1 ~~any of claims 1 to 38~~, additionally comprising applying a lid to the container to protect the contents therein.

40. (Amended) A method according to claim 1 ~~any of claims 1 to 39~~, wherein the powder comprises a medicament.

41. A method according to claim 40 wherein the medicament is selected from the group consisting of albuterol, salmeterol, fluticasone propionate and beclomethasone dipropionate and salts or solvates thereof and any mixtures thereof.

42. An apparatus for loading a container with a defined quantity of product, which comprises:

- a) a perforated plate;
- b) a closure for reversibly closing off a perforation in the perforated plate;
- c) a director for directing powder into said perforation; said director comprising a first leveller blade movable on a sweeping path relative to the perforated plate; and
- d) a transferor for transferring the contents of the perforation to said container,

wherein the first leveller blade is spaced from the perforated plate and presents a forward acute angle to the sweeping path.

43. An apparatus according to claim 42, wherein the closure comprises a blanking plate.

44. An apparatus according to claim 42, wherein the closure comprises a blanking pin inserted into the perforation.

45. An apparatus according to claim 44, wherein the blanking pin is moveable within the perforation to adjust the volume of the perforation.

46. (Amended) An apparatus according to claim 42, any of claims 42 to 45 wherein the diameter of the closed-off perforation is between 1.5mm and 15mm.

47. An apparatus according to claim 42, wherein the closure comprises the container placed in registration with the perforation.

48. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 47~~, wherein said first leveller blade is movable across the perforated plate on a linear sweeping path.
49. (Amended) An apparatus according to claim 1, ~~any of claims 42 to 48~~, wherein the forward acute angle is between 1 and 60°.
50. An apparatus according to claim 49, wherein the forward acute angle is between 5 and 25°.
51. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 50~~ wherein the first leveller blade presents multiple forward acute angles to the linear sweeping path.
52. An apparatus according to claim 51, wherein the first leveller blade is curved in form.
53. An apparatus according to claim 51, wherein the first leveller blade is articulated in form.
54. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 50~~, wherein the first leveller blade has a flat tail section.
55. (Amended) An apparatus according to claim 48, ~~any of claims 48 to 54~~ wherein the first leveller blade is positioned to leave a gap of between 3 and 20mm between the first leveller blade and the perforated plate.
56. An apparatus according to claim 55, wherein the first leveller blade is positioned to leave a gap of between 4 and 8 mm between the first leveller blade and the perforated plate.

57. (Amended) An apparatus according to claim 48, ~~any of claims 48 to 56~~ wherein the director further comprises at least one subsequent leveller blade.

58. An apparatus according to claim 57, wherein the at least one subsequent leveller blade is positioned closer to the perforated plate than the first leveller blade.

59. An apparatus according to claim 58, wherein the at least one subsequent leveller blade is positioned 0 to 12 mm closer to the perforated plate than the first leveller blade.

60. An apparatus according to claim 59, wherein the at least one subsequent leveller blade is positioned 1 to 3 mm closer to the perforated plate than the first leveller blade.

61. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 48~~ wherein the perforated plate forms the rim of a drum.

62. An apparatus according to claim 61, wherein the powder is directed into the closed-off perforations by gravity as the drum rotates.

63. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 62~~, wherein the transferor comprises a transferor pin.

64. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 62~~, wherein the transferor comprises a vacuum system.

65. An apparatus according to claim 64, wherein the vacuum system comprises a vacuum head and at least one vacuum cup.

66. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 65~~ additionally comprising a compactor for compacting the powder in the perforation.

67. An apparatus according to claim 66, wherein the compactor comprises a compactor pin.

68. (Amended) An apparatus according to claim 63 either of claims 63 or 67, wherein the transferor and compactor are integral.

69. (Amended) An apparatus according to claim 63 either of claims 63 or 67, wherein the transferor and compactor are identical.

70. (Amended) An apparatus according to claim 42, any of claims 42 to 69 additionally comprising registration means for registering the container with the perforation.

71. (Amended) An apparatus according to claim 42 any of claims 42 to 70, additionally comprising a powder remover for removing excess powder from the perforated plate subsequent to action of the powder director.

72. An apparatus according to claim 71, wherein the powder remover comprises a wiper.

73. (Amended) An apparatus according to claim 42, any of claims 42 to 72 wherein the container is a blind cavity.

74. An apparatus according to claim 73, wherein the blind cavity is selected from the group consisting of a blister pocket, an injection moulded plastic pocket, a capsule and a bulk container.

75. (Amended) An apparatus according to claim 42 any of claims 42 to 74, additionally comprising a lid applier for applying a lid to the container to protect the powder therein.

76. (Amended) An apparatus according to claim 42, ~~any of claims 42 to 75~~ further comprising powder.

77. An apparatus according to claim 76, wherein the powder comprises a medicament.

78. An apparatus according to claim 77, wherein the medicament is selected from the group consisting of albuterol, salmeterol, fluticasone propionate and beclomethasone dipropionate and salts or solvates thereof and any mixtures thereof.

79. (Amended) A tablet obtainable by the method according to claim 1 ~~any of claims 1 to 41~~.

80. (Amended) Compacted powder obtainable by the method according to claim 1 ~~any of claims 1 to 41~~.